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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/552,457	09/20/2006	Maria De Fatima Teixeira Cardoso Da Silva	2005-1567A	2294	
	7590 03/09/200 I, LIND & PONACK, I	EXAMINER			
1030 15th Street, N.W., Suite 400 East Washington, DC 20005-1503			MARX, IRENE		
			ART UNIT	PAPER NUMBER	
			1651		
			MATE DATE:	DET HERMA (ODE	
			MAIL DATE	DELIVERY MODE	

### Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)		
10/552,457	DE FATIMA TEIXEIRA CARDOSO DA SILVA ET A		
Examiner	Art Unit		
Irene Marx	1651		

	Irene Marx	1651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of the communication.  If NO print for reply is appetited above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Failure to reply, within the set or oxtended period for reply will by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  The statute of the set of of the s						
Status						
1)☐ Responsive to communication(s) filed on     2a)☐ This action is FINAL.	action is non-final. nce except for formal matters, pro		e merits is			
Disposition of Claims						
A) Claim(s) 1-31 is/are pending in the application  4a) Of the above claim(s) is/are withdra  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-31 are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					

3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date \_

5) Notice of Informal Patent Application
6) Other: \_\_\_\_\_

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#### DETAILED ACTION

Claims 1-31 are pending and subject to restriction.

#### Election/Restriction

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-11, 16-20 drawn to a first method, a method of immobilizing microorganisms.

Group II, claim(s) 12 drawn to a second method, a method of making a an alcoholic beverage with Saccharomyces species..

Group III, claim(s) 13, drawn to a third method, a method of using Schizosaccharomyces for deacidification of acidic musts.

Group IV, claim(s) 14 drawn to a fourth method, a method of using *Oenoccocus oeni* or *Lactobacillus* for malolactic fermentation.

Group V, claim(s) 15, drawn to a fifth method, a method of making xylitol from xylose with Candida.

Group VI, claim(s) 21-22, drawn to a first composition, a composition comprising immobilized microorganisms and nutrients.

Group VII, claim(s) 23-27 drawn to a sixth method, a method of making an immobilized three layered microorganism product having a specific structure.

Group VIII, claim(s) 28-29, drawn to a second composition a composition comprising immobilized microorganisms and nutrients having a specific structure.

Group IX, claim(s) 30 drawn to a seventh method, a method of using the first composition of immobilized microorganisms and nutrients to ferment beverages in the bottle.

Group X, claim(s) 31 drawn to an eighth method, a method of using the second composition of immobilized microorganisms and nutrients to resume fermentation of musts in alcoholic fermentation Application/Control Number: 10/552,457

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The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

First, the inventions of groups I-X do not match a permitted category as PCT Rule 13.2 does not provide for multiple methods or products in one category. A variety of processes and compositions are claimed having distinct properties. For example, the immobilization methods of groups I and VII are drawn to include different raw materials and require different process steps and/or require additional equipment or devices to obtain the immobilized products.

Groups II-V and IX-X are directed to the use distinct compositions of distinct microorganisms to produce distinct products wherein the microorganisms have different nutritional requirements to produce the required products. The compositions of Groups VI and VIII have different structural, morphological and physiological properties. For example, the product of Group VI is unstructured, lacks specific layers and is crosslinked, while the product of Group VIII has distinct layers and is not required to be crosslinked.

No common inventive concept is shared among groups I through X, since a technical relationship is lacking among the claimed inventions involving one or more special technical features because products with immobilized microorganisms characterized in that it includes a nutrient supply incorporated in the fixation medium of the microorganisms are known in the art. See, e.g., U.S. Patent No. 5,037,740. See, e.g., coil. 3, lines 5-15.

The requirement of unity of invention is not fulfilled because there is no technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" means those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art. Therefore, a technical relationship is lacking among the claimed inventions involving one or more special technical features.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (foll-free).

/Irene Marx/ Primary Examiner Art Unit 1651